



TPL Series

TPL121600FR Datasheet

12V Front Terminal VRLA-AGM

Specifications

| | |
|--|--|
| Voltage (Vdc) | 12 |
| Ah Capacity (8-Hr 1.75 VPC @ 25°C) | 159 |
| Ah Capacity (20-Hr 1.75 VPC @ 25°C) | 173 |
| Ah Capacity (8-Hr 1.80 VPC @ 25°C) | 156 |
| Max Charge Current (A) | 48 |
| Max Discharge Current (A) | 800 |
| Short Circuit Current (A) | 2593 |
| Internal Resistance (mΩ) | Approx. 3.70 |
| Terminal Type | I2 thread lead alloy terminal to accept M6 bolt |
| Terminal Torque | 51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m |
| Container Material | Flame Retardant ABS (UL 94-V0) |
| Weight (kg. / lb., Approx.) | 54.80 / 120.78 |
| Length (L) (mm / in) | 547.0±2.5 / 21.54±0.10 |
| Width (W) (mm / in) | 124.8±1.5 / 4.94±0.06 |
| Height (H) (mm / in) | 320.3±2.5 / 12.72±0.10 |
| Design Life | Up to 12 Years in Standby Service at 25°C. Eurobat (20°C): >12 Years Very Long Life |
| Operating Temperature | Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F - 104°F) |
| Float Charging Voltage | 13.5 - 13.8 Vdc/battery 25°C (77°F) |
| Eq. Charging Voltage | 14.4 - 15.0 Vdc/battery 25°C (77°F) |
| Self-Discharge | Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F). |



Valve Regulated Lead Acid
(VRLA) Battery

Maintenance-Free, Absorbent
Glass Mat (AGM) Technology for
Efficient Gas Recombination of
up to 99%

Pure Lead Construction and
Proprietary Elements

Designed for Float Service
Standby Power Applications

Built in Accordance with IEC
60896-21/22:2004, UL1973
Listed (MH66728) and UL1989
Recognized (MH14533)

Certified by TUV NORD
according to ISO 9001:2015





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Constant Current Discharge Characteristics Per Battery: Amperes (25°C, 77°F)

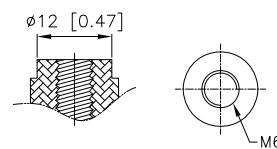
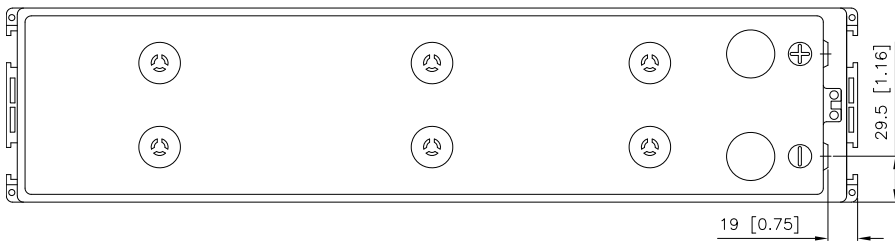
| F.V/Time | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR | 20HR |
|-------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 10.02V (1.67 VPC) | 264 | 174 | 106 | 77.6 | 62.2 | 45.2 | 36.3 | 30.7 | 26.2 | 20.1 | 16.5 | 8.77 |
| 10.50V (1.75 VPC) | 223 | 162 | 101 | 74.5 | 60.0 | 44.3 | 35.5 | 30.1 | 25.8 | 19.9 | 16.3 | 8.67 |
| 10.80V (1.80 VPC) | 194 | 152 | 94.7 | 70.7 | 57.4 | 42.6 | 34.7 | 29.4 | 25.1 | 19.5 | 16.1 | 8.50 |

Constant Power Discharge Characteristics Per Battery: Watts (25°C, 77°F)

| F.V/Time | 15MIN | 30MIN | 60MIN | 90MIN | 2HR | 3HR | 4HR | 5HR | 6HR | 8HR | 10HR | 20HR |
|-------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|------|------|
| 10.02V (1.67 VPC) | 2672 | 1930 | 1223 | 897 | 720 | 529 | 425 | 358 | 305 | 237 | 195 | 104 |
| 10.50V (1.75 VPC) | 2354 | 1835 | 1154 | 856 | 692 | 517 | 417 | 356 | 302 | 234 | 191 | 102 |
| 10.80V (1.80 VPC) | 2113 | 1760 | 1092 | 821 | 670 | 505 | 410 | 353 | 301 | 233 | 190 | 101 |

Detail A Drawing(4:1)

l2



[M6 bolt]

